

# Fortified Rice Production Line

## Introducción detallada :

Fortified rice production line is a set of machines and equipment for producing nutritious rice rich in vitamins and minerals. This rice is designed to address malnutrition in populations where access to a varied and nutritious diet is difficult. The process begins by cleaning the rice grains to remove any debris or impurities. The next stage is polishing, which removes the outer layer of the rice grains. The rice is then mixed with a nutritional premix containing various vitamins and minerals. To ensure that each grain of rice contains the necessary nutrients, it is blended and then sorted. Optical sorters are used to remove any damaged or discolored grain. Finally, the fortified rice is packaged into bags ready for distribution to organizations and communities. Overall, fortification of rice production lines is critical to address nutritional challenges and improve the health of vulnerable populations in developing countries.



## Fortified Rice Process Line Flow Chart

1.Raw Material --- 2. Crushing-Ingredients --- 3. Mixing --- 4. Extrusion --- 5. Pre-Drying --- 6. Drying --- 7. --- 8. Packaging



Fortified Rice Process Line Parameter

| Model   | Capacity<br>(kg/h) | Installed<br>Capacity<br>(kw) | Actual Consumption<br>kw | Speed<br>Control<br>Mode | Dimension<br>m |
|---------|--------------------|-------------------------------|--------------------------|--------------------------|----------------|
| LY3000  | 80-100kg/h         | 55.35kw                       | 41.51kw                  | Inverter                 | 24*4*3m        |
| LY70L-I | 150kg/h            | 63.54kw                       | 47.66 Kw                 | Inverter                 | 24*4*3m        |
| LY70L—? | 300kg/h            | 103kw                         | 77.25 Kw                 | Inverter                 | 24*6*3m        |
| LY70L—? | 450kg/h            | 172.64kw                      | 129.48 Kw                | Inverter                 | 2.7*0.9*3m     |
| LY70L—? | 500kg/h            | 215.16kw                      | 161.37 Kw                | Inverter                 | 20*12*3m       |
| LY70L—V | 600kg/h            | 268kw                         | 201 kw                   | Inverter                 | 20*12*3m       |
| LY80-I  | 300kg/h            | 101.6kw                       | 76.2 kw                  | Inverter                 | 35*4*3m        |
| LY80-?  | 600kg/h            | 98kw                          | 73.5 kw                  | Inverter                 | 35*7*3m        |
| LY80-?  | 900kg/h            | 356kw                         | 267 kw                   | Inverter                 | 35*12*3m       |
| LY75    | 500kg/h            | 132kw                         | 99 kw                    | Inverter                 | 50*4*6m        |
| LY95    | 700kg/h            | 205kw                         | 153.75 kw                | Inverter                 | 59*8*6m        |



## The Function Of Fortified Rice Production Line

The main function of the fortified rice production line is to add essential nutrients to the rice and improve its nutritional value. Fortified rice is rice that has been fortified with vitamins and minerals such as iron, vitamins and folic acid. The process involves mixing rice with a nutritional premix that contains these vitamins and minerals. This mixture is then processed through several stages, including cleaning, polishing, measuring, mixing and packaging. The line also ensures the quality and safety of the fortified rice product by adhering to strict hygiene and safety guidelines. The end product is a nutrient-dense rice that provides essential vitamins and minerals to those who eat it, especially in regions where nutrient deficient diets are common.



## The Advantages Of The Fortified Rice

|                              |                                                                                                                                                                                                                              |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Provides Essential Nutrients | Fortified rice provides essential vitamins and minerals that are essential for human health. This is especially important in areas where malnutrition and nutritional deficiencies are common.                               |
| Ease Of Production           | Fortified rice can be easily produced using a production line that adds nutritional premixes to rice. The process is standardized to ensure the right amount of nutrients are present in the rice.                           |
| Cost-Effective               | Fortified rice is a cost-effective way to provide essential nutrients to a large population. The low production cost per kilogram makes it an affordable solution for governments, aid organizations and food manufacturers. |
| Improves Health              | Fortified rice can improve the health of those who eat it regularly. It prevents nutrient deficiencies, improves cognitive function, and reduces the risk of diseases such as anemia.                                        |
| Sustainable Solution         | Fortified rice is a sustainable solution to combat malnutrition in the long run. By fortifying staple foods, we can ensure people get the nutrients they need to live healthy lives.                                         |

Overall, the superiority of fortified rice suggests that it is an important intervention in the fight against malnutrition, especially in developing countries. Fortified rice can improve the health and well-being of individuals and communities, making societies more productive and prosperous.

